Sunwarmth™ CIR Short-Wave Infrared Electric Radiant Heaters

Technical Data

CIR 150-1 O, CIR 200-2 O, CIR 400-2 O: Conforms to ANSI/UL 2021 Certified to CAN/CSA C22.2 No. 46
CIR 150-1 I: Conforms to ANSI/UL 1278 Certified to CAN/CSA C22.2 No. 46

Model	CIR 150-1 I	CIR 150-1 O	CIR 200-2 O	CIR 400-2 O
Item No.	234047	234048	234049	234050
Usage	indoor only	indoor/outdoor	indoor/outdoor	indoor/outdoor
Voltage, 60Hz	120 V (supplied with plug & cord)		240 V (hard-wired / supplied with cord)	
Wattage	1.5 kW	1.5 kW	2.0 kW	4.0 kW
Amperage	12.5 A	12.5 A	8.3 A	2 x 8.3 A
Required circuit breaker(s)[1]	20 A	20 A	15 A	2 x 15 A
Required wire size (copper)	14 AWG	14 AWG	12 AWG	12 AWG
Lamp temperature	2420 ±360 °F / 1325 ±200 °C			
Lamp life (normal conditions)	5,000 hours			
Lamp color temperature	1,600, ±200 K			
Size of heatable area[2]	108–133 ft²	108–133 ft²	133–165 ft²	205–275 ft²
Average heat density[3]	13.9–11.3 W/ft²	13.9–11.3 W/ft²	15–12.1 W/ft²	19.5–14.5 W/ft²
Height	5 11/16 ″/ 145 mm			
Width	15 9/16 ″/ 395 mm	18 9/16 ″/ 395 mm	18 9/16 ″/ 395 mm	38 1/2 ″/ 978mm
Depth	4 7/16 ″/ 112 mm	4 1/4 ″/ 108 mm	4 1/4 ″/ 108 mm	4 7/16 ″/ 112 mm
Weight	4.85 lb/ 2.2 kg	5.5 lb / 2.5 kg	5.5 lb / 2.5 kg	8.8 lb / 4.0 kg

[1] CIR heaters must be installed on a circuit with a timer or timer switch.
[2] When installed as specified in installation manual.
[3] Heat input needed is 2 W/ft² per °F temp. rise for outdoors and .75 W/ft² per °F temp. rise for indoors (discounting wind). (A 10 x 20 ft outdoor patio needing 15°F temp/ rise would be 10x20x15x2 = 6,000 W or 3 CIR 200-2.)